Notice of Allowability	Application No.	Applicant(s)
	09/886,360	COLDREN, LARRY A.
	Examiner	Art Unit
	Samuel P Siefke	1743
The MAILING DATE of this communication apperation All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  1. This communication is responsive to Examiner amendment 2. The allowed claim(s) is/are 1-7. 3. The drawings filed on 20 June 2001 are accepted by the Examiner amendment is made of a claim for foreign priority under the communication of the communication is responsive to Examiner amendment  4. Acknowledgment is made of a claim for foreign priority under the communication of the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim for foreign priority under the communication is responsive to Examiner amendment is made of a claim fo	tars on the cover sheet with the co (OR REMAINS) CLOSED in this applied or other appropriate communication GHTS. This application is subject to and MPEP 1308.  t 3/10/04.  Examiner.  Idea 35 U.S.C. § 119(a)-(d) or (f).  Example been received.	prrespondence address plication. If not included will be mailed in due course. THIS withdrawal from issue at the initiative
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
<ul> <li>6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposit of</li></ul>	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c sit of BIOLOGICAL MATERIAL n	office action of  logs in the front (not the back) of  d).  nust be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.  ☐ Interview Summary Paper No./Mail Dat 8), 7.  ☑ Examiner's Amendn	e
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Application/Control Number: 09/886,360

Art Unit: 1743

## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Berliner on March 10, 2004.

The application has been amended as follows:

In claim 1, line 7, delete "separate and physically spaced" and replace with – physically separate—

Claim 8-11 are cancelled.

The following is an examiner's statement of reasons for allowance: Claim 1 is allowable because the prior art does not teach or fairly suggest a tunable laser cavity sensor chip that comprises a reference laser and a sensor laser, each comprising a waveguide having a gain section, opposing mirrors including a partially transmissive mirror, and a coherent light beam output section, at least one of the waveguides having a phase control section, the coherent light beam output sections being joined to enable coherent light outputs of the reference and sensor lasers to interfere; a sensor region physically separate from said phase control section formed through and exposing

Application/Control Number: 09/886,360

Art Unit: 1743

the evanescent optical field of the sensor laser, for receiving a sample to be diagnosed, and a heterodyne detector at the juncture of the reference and sensor coherent light output sections for detecting a change in the frequency of the coherent light output from the sensor laser resulting from a change in the index of refraction of fluid in the sensor cavity. All depending claims are allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel P Siefke whose telephone number is 571-272-1262. The examiner can normally be reached on M-F 7:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on 571-272-1700. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 1743

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sam P. Siefke

March 10, 2004

Jill Warden
Supervisory Patent Examiner
Technology Center 1700